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claims pto

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1/19/07

1. A computer system for inputting, storing, organizing and retrieving patient/user medical records, clinical tests, and personal identification data, primarily for use in emergency medical situations, comprising:
- providing an original document containing a medical records, clinical tests and other original identification documents of a patient/user;
 - converting said medical record to a digital record for storage in a data storage device;
 - simultaneous with digitizing said document, assigning and embedding (digital watermark) a unique digital patient identifier to said records;
 - simultaneous with digitizing said document, assigning and embedding (digital watermark) a unique alpha numerical digital physician signature to said document;
 - assigning a priority code to said digital record based on the record's clinical significance, severity of condition and relevance to providing emergency medical treatment, or other medical treatment, to said user/patient;
 - storing said digital record(s) with assigned unique patient identifier, unique digital physician signature, and priority code in a data storage device;
 - providing a request for a medical record using a unique patient identifier and/or physician electronic signature or other record(s) identification means;
 - retrieving said digital record based on said priority code and/or physician signature, if the unique patient identifier and/or physicians electronic signature provided in step (g) matches the unique patient identifier and/or physicians electronic signature on said digital record.
 - providing a means for updating said patient/user medical information on a routine basis as their medical condition, prescriptions and clinical tests change
2. The computer system of claim 1 wherein said priority code is assigned according to a weighted average means or other calculated means, based on the severity of the medical condition, and its clinical relevance in treating the patient/user during a medical emergency, or for other routine medical treatments.
4. The process of claim 1 wherein said unique patient identifier and physician electronic signature are provided and said digital record is retrieved using intra or internet access.
5. The process of claim 1 wherein said unique patient identifier and physician electronic signature are provided and said digital record is retrieved using e-mail access.

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6. The process of claim 1 wherein said unique patient identifier and physician electronic signature are provided and said digital record is retrieved using telephone voice access.
7. The process of claim 1 wherein steps (a) - (f) are repeated for a plurality of medical records for a patient, each of the medical records having the same unique patient identifier and a different priority code.
8. The process of claim 7 wherein the retrieving step includes displaying said digital records in order based on said priority code.

(PROCESS FOR STORING AND RETRIEVING USING EXISTING STORED DATA)

9. A process for storing medical records of a patient for retrieval comprising:
- providing a digital record containing a medical record of a patient and a physician electronic signature;
 - assigning a unique patient identifier to said digital record;
 - comparing said physician electronic signature in said digital record to a database containing known physician electronic signatures;
 - assigning a priority code to said digital record;
 - storing said digital record and assigned unique patient identifier, physician electronic signature and priority code in a data storage device if the physician electronic signature in said digital record matches a known physician electronic signature in said database;
 - providing a request for a medical record a unique patient identifier and physician electronic signature; and
 - retrieving said digital record based on said priority code if the unique patient identifier and physician electronic signature provided in step (f) matches the unique patient identifier and physician electronic signature on said digital record.

10. A process for retrieving medical records of a patient for retrieval comprising:
- providing in a data storage device a plurality of digital records of a patient, each digital record containing a medical record of said patient, a unique patient identifier for said patient, a physician electronic signature and a priority code based on information in said medical record;
 - providing in a request for a medical record a unique patient identifier and physician electronic signature;
 - comparing the unique patient identifier and physician electronic signature provided in step (b) with the unique patient identifier and physician electronic signature in said digital records;
 - retrieving said digital records if the unique patient identifier and physician electronic signature provided in step (b) matches the unique patient identifier and physician electronic signature in said digital record, and
 - displaying said digital records in an order based on said priority code.

11. The process of claim 1 wherein said digital records are displayed in order of severity of medical records.

12. The process of claim 1 wherein said digital records are displayed in order of severity of a condition in said medical record.

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- 1 13. The computer system of claim 1 wherein said patient medical records and data can
2 be rapidly electronically mailed to remote locations, via wireless, optical or other
3 appropriate electronic means for timely treatment of patient in a medical emergency or
4 for routine medical treatment, continuously and 24 hours a day.
- 1 14. The computer system of claim 1 wherein a unique telephone exchange system and
2 a plurality of computer workstations allow for a plurality of different patient records to
3 be simultaneously transmitted and received by the system continuously and 24 hours a
4 day.
- 1 15. The computer system of claim 1 wherein the original patient records are converted to
2 digital format by a unique optical scanner which simultaneously embeds (digital
3 watermark) said unique digital physician signature and unique patient identifier into
4 said patient record to verify document originality and for security purposes.
- 1 16. The computer system of claim 1 and claim 4 wherein the patient records can be
2 accessed from a remote location and printed in hard copy format via any appropriate
3 black and white or color printing means where in the medical diagnostic and medical
4 integrity of the records is maintained, for emergency medical treatment or other medical
5 purposes.
- 1 17. The computer system of claim 1 wherein said records can be accessed in a
2 remotely via the internet, telephone voice system, e-mail or other means, by
3 assigning a unique security PIN number, or other appropriate security means, to the user.
- 1 18. The computer system of claim 1 and claim 13 wherein a unique signal
2 router/controller allows for a plurality of patient records to be simultaneously transmitted
3 and received without data corruption or crosstalk, security checked with said physician
4 signature and/or said patient identifier, to service a plurality of medical emergencies or
5 other medical scenarios in a secure and confidential manner.
- 1 19. The computer system of claim 1 wherein a plurality of data inputs from remote
2 locations, including said unique optical scanners and/or existing digital databases,
3 can transmit and receive secure patient records, for access in a medical emergency
4 and for other medical scenarios.
- 1 20. The computer system of claim 1 having appropriate remote and local computer
2 workstations to input, transmit and receive said patient records and data 24 hours
3 a day to service medical emergencies and other medical scenarios.
- 1 21. The computer system of claim 1 and claim 13 wherein the patient records and data
2 are accessed through the unique telephone exchange via said PIN, unique patient
3 identifier, said physician signature or other appropriate security means on a 24 hour
4 basis for servicing medical emergencies and other medical scenarios.
- 1 22. The computer system of claim 1 wherein the patient can wear or carry a medical
2 card, medical jewelry or other appropriate device which designates that the person
3 has a medical condition and that their medical records are accessible using their
4 unique identifier number and either the Internet, website or said telephone exchange.

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23. A process, including appropriate software routines, for inputting, storing, organizing and retrieving patient/user medical records, clinical tests, and personal identification data, primarily for use in emergency medical situations, comprising:

- providing an original document containing a medical records, clinical tests and other original identification documents of a patient/user;
- converting said medical record to a digital record for storage in a data storage device;
- simultaneous with digitizing said document, assigning and embedding (digital watermark) a unique digital patient identifier to said records;
- simultaneous with digitizing said document, assigning and embedding (digital watermark) a unique alpha numerical digital physician signature to said document;
- assigning a priority code to said digital record based on the records clinical significance, severity of condition and relevance to providing emergency medical treatment, or other medical treatment, to said user/patient;
- storing said digital record(s) with assigned unique patient identifier, unique digital physician signature, and priority code in a data storage device;
- providing a request for a medical record using a unique patient identifier and/or physician electronic signature or other record(s) identification means;
- retrieving said digital record based on said priority code and/or physician signature, if the unique patient identifier and/or physicians electronic signature provided in step (g) matches the unique patient identifier and/or physicians electronic signature on said digital record;
- providing a means for updating said patient/user medical information on a routine basis as their medical condition, prescriptions and clinical tests change

1 24. The process of claim 20 wherein said priority code is assigned according
2 to a weighted average means or other calculated means, based on the severity of the
3 medical condition, and its clinical relevance in treating the patient/user during a
4 medical emergency, or for other routine medical treatments.

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- 13 (new) A computer system for inputting, storing, organizing and retrieving patient/user medical records, clinical tests, and personal identification data, primarily for use in emergency medical situations, comprising:
- a. providing medical records, clinical tests and other personal information and identification information of a patient/user;
 - b. converting the medical records, clinical tests and other personal information to a digital record for storage in a data storage device;
 - c. assigning a unique alpha numerical patient identifier code to the patient records and information;
 - d. providing a means for updating said patient/user medical information on a routine basis as their medical condition, prescriptions and clinical tests change;
 - e. providing a means of retrieving the medical records and data based on the users unique alpha numerical identifier code
- 14 (new) The computer system of claim 1 wherein, simultaneously with digitizing the medical records and user ID information, a unique digital alpha numerical water mark is embedded into the document to verify its authenticity.
- 15 (new) The computer system of claim 1 wherein, simultaneously with digitizing the medical records and user ID information, a unique alpha numerical digital physician signature is assigned and embedded into the document.
- 16 (new) The computer system of claim 1 wherein a priority code is assigned to the digital records based on the clinical significance of the record, severity of condition and relevance to providing medical treatment to the user/patient.
- 17 (new) The computer system of claim 1 wherein the digital records, with assigned unique patient identifier, unique digital physician signature, and priority code, are stored in a data storage device.

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1 18 (new) The computer system of claim 1 wherein a request may be entered to retrieve
2 patient medical records and other information using the unique alpha numerical patient
3 identifier or other records identification means.

1 19 (new) The computer system of claim 1 wherein a request may be entered to retrieve
2 patient medical records and other information using the digital physician signature
3 identifier or other records identification means.

1 20 (new) The computer system of claim 1 wherein patient medical records and other
2 information may be retrieved if the unique alpha numerical patient identifier entered with
3 the retrieval request matches a stored database of patient identifiers.

1 21 (new) The computer system of claim 1 wherein patient medical records and other
2 information may be retrieved if the digital physician signature entered with the retrieval
3 request matches a stored database of digital physician signatures.

1 22 (new) The computer system of claim 16 wherein said priority code is assigned
2 according to a weighted average means or other calculated means, based on the severity
3 of the medical condition, and its clinical relevance in treating the patient/user during a
4 medical emergency, or for other routine medical treatments.

1 23 (new) The computer system of claim 1 wherein the patient/user medical data is
2 condensed and organized in data fields in digital page format.

1 24 (new) The computer system of claim 1 wherein the patient/user medical is organized in
2 data fields based on the clinical relevance and/or utility of the data in treating a patient in a
3 medical emergency, or other medical scenario.

1 25 (new) The computer system of claim 1 wherein said unique patient identifier is provided
2 for security and identification and said digital records are retrieved using 24 hour a
3 day intranet or internet access (website viewing, download or other means) during a
4 medical emergency or other medical scenario to provide clinically accurate and timely
5 medical treatment to said patient/user.

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1 26 (new) The computer system of claim 1 wherein said unique patient identifier is provided
2 for security and identification and said digital records and other personal information are
3 accessed and updated using 24 hour a day intranet or internet access (website
4 viewing, download or other means).

1 27 (new) The computer system of claim 1 wherein said digital physician signature is
2 provided for security and identification and said digital records and other personal
3 information are accessed and updated using 24 hour a day intranet or internet
4 access (website viewing, download or other means).

1 28 (new) The computer system of claim 1 wherein said unique patient identifier and/or
2 unique digital physician signature are provided and said medical data is retrieved
3 using 24 hour a day e-mail access for timely access to the medical data in a medical
4 emergency or other medical scenario, or for routine updating of said patient records.

1 29 (new) The computer system of claim 1 wherein said unique patient identifier is provided
2 and said medical data and information rapidly retrieved using 24 hour a day
3 telephone voice access, for emergency and/or routine patient treatment and reference.

1 30 (new) The computer system of claim 1 wherein said digital physician signature is
2 provided and said medical data is rapidly retrieved using 24 hour a day telephone voice
3 access, for emergency and/or routine patient treatment and reference.

1 31 (new) The computer system of claim 1 wherein the user/patient medical data is
2 encrypted for securing and confidentiality.

1 32 (new) The computer system of claim 1 wherein the unique alpha numerical physician
2 signatures are stored in a digital library, and said physician signatures are compared to
3 now and existing patient records to verify their originality and medical integrity.

1 33 (new) The computer system of claim 1 wherein the patient/user medical
2 records and prescriptions can be updated and changed as a patient's condition
3 changes via the Internet or intranet, using the unique patient identifier or other means,
4 for security access and confidentiality, continuously and 24 hours a day.

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1 34 (new) The computer system of claim 1 wherein said patient medical records and data
2 can be rapidly electronically mailed to remote locations, via wireless, optical or other
3 appropriate electronic means for timely treatment of patient in a medical emergency or
4 for routine medical treatment, continuously and 24 hours a day.

1 35 (new) The computer system of claim 1 wherein a unique telephone exchange system
2 and a plurality of computer workstations allow for a plurality of different patient records to
3 be simultaneously transmitted and received by the system continuously and 24 hours a
4 day.

1 36 (new) The computer system of claim 1 wherein the original patient records are
2 converted to digital format by a unique optical scanner which simultaneously embeds
3 (digital watermark) said unique digital physician signature and unique patient identifier into
4 said patient record to verify document originality and for security purposes.

1 37 (new) The computer system of claim 1 wherein the patient records can be
2 accessed from a remote location and printed in hard copy format via any appropriate
3 black and white or color printing means wherein the medical diagnostic and medical
4 integrity of the records is maintained, for emergency medical treatment or other medical
5 purposes.

1 38 (new) The computer system of claim 1 wherein said records can be accessed
2 remotely via the internet, telephone voice system, e-mail or other means, by
3 assigning a unique security PIN number, or other appropriate security means, to the user.

1 39 (new) The computer system of claim 1 wherein a unique signal
2 router/controller allows for a plurality of patient records to be simultaneously transmitted
3 and received without data corruption or crosstalk, security checked with said physician
4 signature and/or said patient identifier, to service a plurality of medical emergencies or
5 other medical scenarios in a secure and confidential manner.

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- 1 40 (new) The computer system of claim 1 wherein a plurality of data inputs from remote
2 locations, including said unique optical scanners and/or existing digital databases,
3 can transmit and receive secure patient records, for access in a medical emergency
4 and for other medical scenarios.
- 1 41 (new) The computer system of claim 1 having appropriate remote and local computer
2 workstations to input, transmit and receive said patient records and data 24 hours
3 a day to service medical emergencies and other medical scenarios.
- 1 42 (new) The computer system of claim 1 wherein the patient records and
2 data are accessed through a telephone exchange via the unique patient
3 identifier, or said physician signature, or other appropriate security means on a 24 hour
4 basis for servicing medical emergencies and other medical scenarios.
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- 1 43 (new) The computer system of claim 1 wherein the patient can wear or carry a medical
2 card, medical jewelry or other appropriate device which designates that the person
3 has a medical condition and that their medical records are accessible using a 24 hour
4 telephone communications system.
- 1 44 (new) The computer system of claim 43 wherein the unique alpha numerical identifier is
2 used over the telephone to identify the patient/user and their medical records.
- 1 45 (new) The computer system of claim 1 wherein the patient can wear or carry a medical
2 card, medical jewelry or other appropriate device which designates that the person
3 has a medical condition, and that their medical records are accessible using their
4 unique identifier number and the Internet, or website access.
- 1 46 (new) The computer system of claim 1 wherein the patient can wear or carry a medical
2 card, medical jewelry or other appropriate device which designates that the person
3 has a medical condition, and that their medical records are accessible using their
4 unique identifier number and the Internet for routine updating of medical records
5 and other information.

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47 (new) A process, including appropriate software routines, for inputting, storing, organizing and retrieving patient/user medical records, clinical tests, and personal identification data, primarily for use in emergency medical situations, comprising:

- providing medical records, clinical tests and other personal information and identification of a patient/user;
- converting said medical record and other personal information to a digital record for storage in a data storage device;
- assigning a unique alpha numerical patient identifier code to the medical records and other personal information;
- providing a means for updating said patient/user medical information on a routine basis as their medical condition, prescriptions and clinical tests change;
- providing a means for retrieving the medical records and personal data based on the users unique alpha numerical identifier code.

1 48 (new) The process of claim 47 wherein, simultaneously with digitizing the
2 medical records and user ID information, a unique digital alpha numerical water mark is
3 embedded into the document to verify its authenticity.

1 49 (new) The process of claim 47 wherein, simultaneously with digitizing the
2 medical records and user ID information, a unique alpha numerical digital physician
3 signature is assigned and embedded into the document.

1 50 (new) The process of claim 47 wherein a priority code is assigned to the digital
2 records based on the clinical significance of the record, severity of condition and relevance
3 to providing medical treatment to the user/patient.

1 51 (new) The process of claim 47 wherein the digital medical records and other user
2 information, and unique alpha numerical identifier, are stored in a data storage device.

1 52 (new) The process of claim 47 wherein a request may be entered to retrieve
2 patient medical records and other information using the unique alpha numerical patient
3 identifier or other records identification means.

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- 1 53 (new) The process of claim 47 wherein a request may be entered to retrieve
2 patient medical records and other information using the digital physician signature
3 identifier or other records identification means.
- 1 54 (new) The process of claim 47 wherein patient medical records and other
2 information may be retrieved if the unique alpha numerical patient identifier entered with
3 the retrieval request matches a stored database of patient identifiers.
- 1 55 (new) The process of claim 47 wherein patient medical records and other
2 information may be retrieved if the digital physician signature entered with the retrieval
3 request matches a stored database of digital physician signatures.
- 1 56 (new) The process of claim 50 wherein said priority code is assigned according
2 to a weighted average means or other calculated means, based on the severity of the
3 medical condition, and its clinical relevance in treating the patient/user during a
4 medical emergency, or for other routine medical treatments.
- 1 57 (new) The process of claim 47 wherein the patient/user medical data is
2 condensed and organized in data fields in digital page format.
- 1 58 (new) The process of claim 47 wherein the patient/user medical data is
2 condensed and organized in data fields based on the clinical relevance and/or utility of the
3 data in treating a patient in a medical emergency, or other medical scenario.
- 1 59 (new) The process of claim 47 wherein said unique patient identifier is provided for
2 security and identification and said digital records are rapidly retrieved using 24 hour a day
3 intranet or internet access (website viewing, download or other means) during a medical
4 emergency or other medical scenario to provide clinically accurate and timely medical
5 treatment to said patient/user.
- 1 60 (new) The process of claim 47 wherein said unique patient identifier is provided
2 for security and identification and said digital records and other personal information are
3 accessed and updated using 24 hour a day intranet or internet access (website
4 viewing, download or other means).

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- 61 (new) The process of claim 47 wherein said digital physician signature is provided for security and identification and said digital records and other personal information are accessed and updated using 24 hour a day intranet or internet access (website viewing, download or other means).
- 62 (new) The process of claim 47 wherein said unique patient identifier and/or unique digital physician signature are provided and said medical data is retrieved using 24 hour a day e-mail access for rapid access to the medical data in a medical emergency or other medical scenario, or for routine updating of said patient records.
- 63 (new) The process of claim 47 wherein said unique patient identifier is provided and said medical data is rapidly retrieved using 24 hour a day telephone voice access, for emergency and/or routine patient treatment and reference.
- 64 (new) The process of claim 47 wherein said digital physician signature is provided and said medical data is rapidly retrieved using 24 hour a day telephone voice access, for emergency and/or routine patient treatment and reference.
- 65 (new) The process of claim 47 wherein the user/patient medical data is encrypted for security and confidentiality.
- 66 (new) The process of claim 49 wherein the unique alpha numerical physician signatures are stored in a digital library, and said physician signatures are compared to new and existing patient records to verify their originality and medical integrity.
- 67 (new) The process of claim 47 wherein the patient/user medical records and prescriptions can be updated and changed as a patient's condition changes via the Internet or intranet, using the unique patient identifier or other means, for security access and confidentiality, continuously and 24 hours a day.

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- 68 (new) The process of claim 47 wherein said patient medical records and data can be rapidly electronically mailed to remote locations, via wireless, optical or other appropriate electronic means for timely treatment of patient in a medical emergency or for routine medical treatment, continuously and 24 hours a day.
- 69 (new) The process of claim 47 wherein a unique telephone exchange system and a plurality of computer workstations allow for a plurality of different patient records to be simultaneously transmitted and received by the system continuously and 24 hours a day.
- 70 (new) The process of claim 47 wherein the original patient records are converted to digital format by a unique optical scanner which simultaneously embeds (digital watermark) said unique digital physician signature and unique patient identifier into said patient record to verify document originality and for security purposes.
- 71 (new) The process of claim 47 wherein the patient records can be accessed from a remote location and printed in hard copy format via any appropriate black and white or color printing means where in the medical diagnostic and medical integrity of the records is maintained, for emergency medical treatment or other medical purposes.
- 72 (new) The process of claim 47 wherein said records can be accessed in a remotely via the internet, telephone voice system, e-mail or other means, by assigning a unique security PIN number, or other appropriate security means, to the user.
- 73 (new) The process of claim 47 wherein a unique signal router/controller allows for a plurality of patient records to be simultaneously transmitted and received without data corruption or crosstalk, security checked with said physician signature and/or said patient identifier, to service a plurality of medical emergencies or other medical scenarios in a secure and confidential manner.

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- 1 ^h 74 (new) The process of claim 47 wherein a plurality of data inputs from remote
2 locations, including said unique optical scanners and/or existing digital databases,
3 can transmit and receive secure patient records, for access in a medical emergency
4 and for other medical scenarios.
- 1 75 (new) The process of claim 47 having appropriate remote and local computer
2 workstations to input, transmit and receive said patient records and data 24 hours
3 a day to service medical emergencies and other medical scenarios.
- 1 76 (new) The process of claim 47 wherein the patient records and data
2 are accessed through the unique telephone exchange via the unique patient
3 identifier, or said physician signature, or other appropriate security means on a 24 hour
4 basis for servicing medical emergencies and other medical scenarios.
- 1 77 (new) The process of claim 47 wherein the patient can wear or carry a medical
2 card, medical jewelry or other appropriate device which designates that the person
3 has a medical condition and that their medical records are accessible using a 24 hour
4 telephone communications system.
- 1 78 (new) The process of claim 77 wherein the unique alpha numerical patient identifier is
2 used to identify the user via the 24 hour a day telephone communications system.
- 1 79 (new) The process system of claim 47 wherein the patient can wear or carry a medical
2 card, medical jewelry or other appropriate device which designates that the person
3 has a medical condition, and that their medical records are accessible using their
4 unique identifier number and the Internet, or website access.
- 1 80 (new) The process of claim 47 wherein the patient can wear or carry a medical
2 card, medical jewelry or other appropriate device which designates that the person
3 has a medical condition, and that their medical records are accessible using their
4 unique identifier number and the Internet for routine updating of medical records
5 and other information.

1 ^h 81 (original) The computer system of claim 13 wherein the integration of the
physician signature into said digital record is the legal and binding equivalent of a
written physician signature.

82 (original) The computer system of claim 13 including a means for updating
said medical data, clinical data and said patient data via either said system or
remote workstations.

83. (original) The computer system according to claim 13 further comprising
means for transferring a medical record, clinical test or patient data from a pre-
existing database to the system database.

84 (original). The computer system according to claim 16 wherein said means for
transferring a medical record, clinical test or patient data from a pre-existing

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Database includes means for authenticating each said record, test or patient data prior to transferring the record to the system database.

85 (original) The computer system according to claim 13 wherein original digital medical records, clinical tests, and patient data can be created and stored within said system

86 (original) A computer system for inputting, storing, organizing, authenticating, retrieving medical records, clinical data, and patient data, the system comprising:

means for creating digital medical records, clinical data, and patient data

means for assigning a first password to a system user

means for assigning a first user ID to a system user

means for storing said first user passwords and first user ID's in a database

means for authenticating a user by comparing a second user password and ID used during system login to said first user password and said first ID stored in said database.

87 (original) A computer system for inputting, storing, organizing, authenticating, retrieving medical records, clinical data, and patient data, the system comprising:

means for creating digital medical records, clinical data, and patient data

means for assigning a first user ID from a biometric characteristic

means for storing said first user ID's in a database

means for authenticating a user by comparing a second user ID obtained during system login to the first user ID stored in said database

88 (original) A process for inputting, storing, organizing, authenticating, retrieving medical records, clinical data, and patient data, the process comprising:

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89. (amended) A computer system for inputting, storing, organizing, retrieving, and authenticating, medical records, clinical data, and patient data, the system comprising:

an optical scanner for converting medical records, clinical data, and patient data to digital records using a digitizing process

said optical scanner creating a digital data matrix layer of said digital records

said optical scanner simultaneously assigning, embedding and matroding a unique patient identifier watermark into each said digital record matrix layer during said digitizing process

said optical scanner simultaneously assigning, embedding and matroding a first digital physician signature watermark into each said digital record matrix layers during said digitizing process

means for organizing and ranking said digital records based on their chronology and clinical utility in treating said patient

memory for storing said digital records, containing said unique patient identifier watermark and said digital physician signature watermark, within said computer system

means for storing said digital records, containing said unique patient identifier watermark and said digital physician signature watermark, in said memory and
retrieving said digital records, containing said unique patient identifier watermark and said digital physician signature watermark, from said memory,

a physician signature database having a plurality of physician names and

corresponding second digital physician signature watermarks stored therein,

means for authenticating said stored digital records including means for comparing said first digital physician signature watermark retrieved from a selected one of said stored digital records with a corresponding one of said second digital physician signature watermarks retrieved from said physician signature database, and

means for organizing and ranking said authenticated digital records based on their chronology and clinical utility in treating said patients,

means for outputting said organized, authenticated digital records based on said
organization and ranking

90. (unchanged) The computer system of claim 89 wherein said stored digital records are accessible using at least one of said patient identifier, said first physician signature, a biometric characteristic of a user, and a system password.

91. (unchanged) The computer system of claim 89 wherein said digital records are accessible via a plurality of means including: a computer network, a telephone, a voice recognition system, a data access system.

92. (unchanged) The computer system of claim 89 wherein said digital records are stored in a format including at least one discrete data field, wherein said data records are retrievable based on a plurality of means including: the age and date of said clinical data, the severity of said patient's medical condition, and the medical relevance of said clinical data in treating said patient.

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93. (unchanged) The computer system of claim 89 wherein said digital records can be updated on a 24 hour basis via a plurality of means including: a computer network, a telephone system, a data access system.
94. (unchanged) The computer system of claim 89 wherein said stored digital records are encrypted.
95. (unchanged) The computer system of claim 89 wherein said patient can wear or carry an identification device that has a plurality of markings for identifying said patient has a medical condition and a means for indicating, including said unique patient identifier, that said digital records corresponding to said patient are accessible via said computer system.
96. (unchanged) The computer system of claim 95 wherein said medical records can be accessed, updated, and changed on a 24 hour basis using at least one of the Internet, an Intranet, a telephone system, a data access system.
- 97 (unchanged) The computer system of claim 89 further comprising a plurality of computers or workstations coupled to said memory for simultaneous access, processing or transmitting of said digital records.
- 98 (amended) A process for inputting, storing, organizing, retrieving and authenticating medical records, clinical data, and personal data, the process comprising the steps of:
- converting a plurality of medical records into corresponding digital records using an optical scanner digitizing process
 - creating a digital data matrix layer of said digital records during said optical scanner digitizing process
 - assigning and embedding a unique patient identifier watermark into each said digital record matrix layer simultaneous with said optical scanner digitizing process

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assigning and embedding a first digital physician signature watermark into each said digital record matrix layer simultaneous with said digitizing process
~~organizing and ranking said digital records based on their chronology and clinical utility in treating a patient~~

storing said digital records containing said unique patient identifier watermark, and said digital physician signature watermark, in a computer memory;

storing a plurality of physician names and corresponding second digital physician signature watermarks in a computer memory;

authenticating said ~~stored~~ digital records by comparing said first physician signature watermark to a corresponding one of said second physician signature watermarks;

automatically organizing and ranking said authenticated digital records based on their chronology and clinical utility in treating a patient.

retrieving said ~~stored~~ authenticated digital records for a selected patient; and

outputting said ~~retrieved~~ authenticated digital records based on said organizing and ranking

99. (unchanged) The process of claim 98 wherein said step of retrieving said digital records further comprises a step of authorizing access to said computer memory, said step of authorizing access includes using a plurality of identification means including: said patient identifier, said first physician signature, a biometric characteristic of a user, and a password..

100. (unchanged) The process of claim 99 wherein the step of retrieving said digital records further comprises a step of accessing said computer memory

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using a plurality of means including: a computer network, a telephone, and a voice or data access system.

101. (unchanged) The process of claim 98 wherein said step of storing said digital records includes organizing said digital records in a page format including at least one discrete data field.

102. (unchanged) The process of claim 98 wherein the step of outputting said digital records includes ordering said digital records by a plurality of means including: the age and date of said clinical data, a degree of said patient's medical condition, and a relevance of said clinical data to treating said patient.

103. (unchanged) The process of claim 98 further comprising a step of updating said digital records.

104. (unchanged) The process of claim 98 further comprising a step of encrypting said digital records.

105. (unchanged) The process of claim 98 further comprising a step of providing an identification device, wherein a patient can wear or carry said identification device, for the purpose of indicating that a patient has a medical condition and medical records corresponding to said patient are accessible from said computer system.

106 (unchanged) The process of claim 98 further comprising a step of providing a plurality of remote computers or workstations wherein each said remote computer or workstation provides for accessing and processing said stored digital records.

Art Unit: ***



107 (canceled) A computer system for inputting, storing, organizing, authenticating, retrieving medical records, clinical data, and patient data, the system comprising:

an optical scanner for converting medical records, clinical data, and patient data to digital records using a digitizing process;

said optical scanner creating a digital data matrix layer of each said digital records

said optical scanner simultaneously assigning, embedding and matrixing a first physician biometric characteristic watermark into each said digital record during said digitizing process;

means for organizing and ranking said digital records based on their chronology and clinical utility in treating said patient;

means for storing said digital records therein;

means for authenticating said digital records including comparing a second physician biometric characteristic obtained during a login process, or stored in a database, to said first physician biometric characteristic watermark.

Means for outputting said organized records based on said organization and ranking.

108 (canceled) A process for inputting, storing, organizing, authenticating, retrieving medical records, clinical data, and patient data, the process comprising:

converting medical records, clinical data, and patient data to digital records using a optical scanner digitizing process

creating a digital data matrix layer of said digital records

embedding a first physician biometric characteristic watermark into each said digital record matrix layer simultaneous with said optical scanner digitizing process;

organizing and ranking said digital records based on chronology and clinical utility in treating said patient

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storing said digital medical records corresponding to said patient therein;

authenticating said digital records by comparing a second physician biomedical characteristic obtained during login, or stored in a separate database, to said first physician biometric characteristic watermark embedded in said digital record.

Outputting said digital records based on said organizing and ranking.

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